

Date: Tue, 31 May 94 04:30:12 PDT  
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>  
Errors-To: Ham-Ant-Errors@UCSD.Edu  
Reply-To: Ham-Ant@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Ant Digest V94 #164  
To: Ham-Ant

Ham-Ant Digest                      Tue, 31 May 94                      Volume 94 : Issue 164

Today's Topics:

2 meter thru-glass  
Dipole help  
Dipole in attic? (2 msgs)  
FCC licensing delays  
HamSticks....  
Maltese quad

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>  
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Mon, 30 May 1994 23:05:57 GMT  
From: nwnexus!jhgrud!eskimo!wrt@uunet.uu.net  
Subject: 2 meter thru-glass  
To: ham-ant@ucsd.edu

In article <CqFIJv.6C6@ra.nrl.navy.mil>,  
David Drumheller <drumhell@claudette.nrl.navy.mil> wrote:  
> Look here folks. A lot of technical folklore gets passed around the  
  
> amateur community, and some of it is incorrect. But of all the  
subjects  
> that suffer from the propagation of inaccurate technical folklore, the  
  
> subject of antennas suffers the most.  
>  
> I have ask for, and have received advice about antenna  
installations.

>Some of it good, some of it bad. Many opinion are in conflict:  
>  
> ...you need a ground plane... no, you don't need one... my  
>through-the-glass antenna works great... mine sucked, so I returned  
it...  
>you must use a balun... why? ... well, just because... RF current  
occurs  
>on the feedline ... well then why is the coax on top of the ground  
plane  
>(car roof)?... gee, I don't know, good question...  
>  
> Now I have to admit that even I have contributed to this problem.  
>  
> So now I ask the academics out there to respond, not some elec-tech.  
  
>  
> Question: Has \*anyone\* done a comprehensive scientific study of the  
>performance of through-the-glass antennas, or any other mobile antenna  
>installations. This includes input impedance, radiation patterns, etc.  
>I'm looking for an IEEE paper showing how Halen's integral equation is  
>solved, and not some QST article with a couple of mismarked graphs  
showing  
>a radiation pattern measured using a field strength meter from Radio  
Shack  
>and a tape measure.  
>  
> Antenna theory is not my specialty, but it would be refreshing to  
read  
>something written by someone with scientific authority, and not by  
someone  
>who 'know antennas,' but still uses the 'left hand rule' to derive the  
  
>magnetic field due to electron current flow.  
>  
>-Dave  
>--  
>David Drumheller, KA3QBQ                      phone: (202) 767-3524  
>Acoustics Division, Code 7140                fax: (202) 404-7732  
>Naval Research Laboratory  
>Washington, DC 20375-5350    e-mail: drumhell@claudette.nrl.navy.mil

Well, we have wine snobs and food snobs, why not antenna snobs?

All the IEEE papers in the world aren't worth a plugged nickel until some "elec-tech" goes out with FS meter and tape measure in hand and verifies them. Then and only then will folks believe.

Lighten up, Dave. You need both.

73 de W7LZP

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Date: Tue, 31 May 94 02:05:03 -0500  
From: news.delphi.com!usenet@uunet.uu.net  
Subject: Dipole help  
To: ham-ant@ucsd.edu

the human ear, on a steady tone, can detect a 2dB difference.....for many,  
a 1dB difference can be discerned.

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Date: Mon, 30 May 94 07:56:18 CST  
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!howland.reston.ans.net!wupost!slacc.com!  
doogie@network.ucsd.edu  
Subject: Dipole in attic?  
To: ham-ant@ucsd.edu

IA>Will 1/2 wave dipole made for a CB work in an attic?

IA>---

IA>Thank you,

IA>Arik Klingensmith                    arik.klingensmith@ebay.sun.com

It'll work but you won't like it because:

- 1) Most CBers are vertically polarized - 10 to 25 dB of attenuation.
- 2) Attic antennas don't radiate as well as outdoor antennas.  
    (est. 3 to 12 dB of attenuation)
- 3) Attic antennas produce more TVI, RFI ect - coupling into house  
    wiring, close proximity to household receiving devices.
- 4) It's hard to get a good SWR match - an effect of having an object  
    in close proximity to your antenna.

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Date: 31 May 1994 02:39:22 GMT  
From: news.delphi.com!domonkos@uunet.uu.net  
Subject: Dipole in attic?  
To: ham-ant@ucsd.edu

Rather than listening to heresay about 'what someone else said' about attic antennas, try it yourself and see. When folks start throwing dB loss figures at you, ask them what they based the figures on. Being in the comm field and having installed and tested antenna systems w/REAL test equipment I can guarantee you wood has a minimal attenuating effect on HF frequencies, even with all the nail and small metal plates up there. Good luck.

Andy

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Date: Mon, 30 May 94 07:56:17 CST  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!wupost!slacc.com!  
doogie@network.ucsd.edu  
Subject: FCC licensing delays  
To: ham-ant@ucsd.edu

Patience Daryl, the wait will be worth it.

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Date: Tue, 31 May 94 01:49:49 -0500  
From: news.delphi.com!usenet@uunet.uu.net  
Subject: HamSticks....  
To: ham-ant@ucsd.edu

Stick with Lakeview.....better.

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Date: 30 May 1994 15:18:38 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!pipex!sunic!ugle.unit.no!  
lise.unit.no!kenneth@network.ucsd.edu  
Subject: Maltese quad  
To: ham-ant@ucsd.edu

Does anyone have a detailed description of this antenna which I'd like to set up for 20/17/15 meter ??

I understand it's smaller, but still offer me a reasonable performance, and since I have limited space I'm thinking of building this antenna.  
How is this quad compared to the 'real' quad ???

If anyone have experienced this antenna , pse let me know.

Thanks in advance,

Kenneth LA7GIA.

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End of Ham-Ant Digest V94 #164  
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